

LHC@FNAL Task Force Meeting 11/3/05

Attendees:

FNAL: Kurt Biery, Erik Gottschalk, Suzanne Gysin, Elvin Harms, Shuichi Kunori, Michael Lamm, Patty McBride, Elliott McCrory, Jim Patrick, Jean Slaughter, Mike Tartaglia, Alvin Tollestrup

OTHER LOCATIONS:

Assessment of LHC@FNAL – Erik Gottschalk

(<http://docdb.fnal.gov/CMS-public/DocDB/ShowDocument?docid=541>)

I'll give you an update on the status of LHC@FNAL. It is now 183 days (6 months) since our first meeting in May. I'll remind you of our charge, and then give you my view of where we are with regard to requirements, recommendations from the review, site visits, resource loaded schedule (WBS), our FY06 budget, LHC@FNAL space, and computing security.

The charge that we received from the Fermilab Director in April asked that we produce a preliminary report by July of 2005, a final report by the end of this calendar year, and prepare a resource loaded schedule by the end of the year. We had a review of our requirements on July 21, and then submitted our preliminary requirements document to Pier on July 29 (after including recommendations from the review committee). Before we can submit our final requirements document we still need to update some of the requirements that were incomplete in July.

With the time that we have left in 2005, we need to focus all of our attention on developing a WBS (Work Breakdown Structure) by the end of the year.

We have made some progress on developing an operations model for LHC@FNAL, but have not completed this task, which was recommended by our review committee in July. For remote participation in LHC operations we went back to our scenarios, and used them to develop a rudimentary operations model. For CMS we haven't made any progress, and part of the reason is that CMS itself has not developed an operations model. Given the time that we have left and the emphasis on developing a WBS, it seems unlikely that we will have worked out an operations model by the end of this year.

The site visits have been very useful to learn about operations models for other projects, and to learn about the design of control rooms. We have completed site visits to the Technology Research Education Commercialization Center (TRECC) near Fermilab, the remote control room for the Gemini Project, the control room for Jefferson Lab, several control rooms for the Hubble Space Telescope, National Ignition Facility and General Atomics. We have scheduled two more site visits, one to see the SNS control room and a trip to Argonne to see the APS control room.

With regard to work that is focused on developing cost and schedule estimates for the WBS, Suzanne is working on evaluating what we need to participate in LHC and Kurt is beginning to work on evaluating our needs for CMS. In particular we may need to support the continued development of the electronic logbook for CMS. The work that Gary has been doing on layouts for LHC@FNAL in Wilson Hall is important so that we can estimate construction costs. Elvin will say more about this in this talk.

Our budget for FY06 does not look good. Initially we asked for \$146K from the Particle Physics Division (PPD) to support R&D costs, and this was reduced to \$110K after discussions with the PPD Division Head. There are currently three budget scenarios, and in two of the scenarios our budget has been zeroed out. We mentioned this to Pier in our meeting last Monday. The implication is that we may need to consider a staged implementation for LHC@FNAL.

We also asked for 2.7 FTEs from Computing Division (CD). For FY06 this was reduced to 0.7 FTEs.

Alvin: What does 0.7 FTEs from CD mean?

Patty: Part of Suzanne and part of Kurt. We have to identify the resources we need and why we need them.

Alvin: 0.7 would be a disaster. How much support do we have now?

Patty: less than that.

Erik: We need to get more specifics. We are de-emphasizing the operations model, and we are getting more specifics on how to work with CERN as we develop the WBS.

Patty: The project depends on someone providing support. We need to have a better understanding of technical issues before we can ask for access.

Jean: Would it be helpful to have a FNAL security person on the team?

Patty: Not yet, we can certainly consult with them.

During the next week we will be initiating a 3-month trial of web conferencing service called WebEx (<http://webex.com/>). The purchase order has been signed, and we have our first meeting to work out the details regarding training this coming week on Tuesday (Nov. 8). We have over 30 people who have expressed an interest in learning how to become a WebEx host. There are two types of training available, one involving an online instructor and a self-paced training done on the web. We would like to get a view more people at CERN for the 3-month trial.

Jean: Maybe Denise Heagerty would like to be a host.

Erik: I will ask her and see if Denise would be interested.

LHC@FNAL Meeting #2 with Pier – Elvin Harms

(<http://docdb.fnal.gov/CMS-public/DocDB/ShowDocument?docid=540>)

Erik, Patty, Alvin and Elvin met with Pier on Monday.

With regard to a schedule for LHC@FNAL we discussed a phased implementation, since there is little or no money this fiscal year.

We indicated that we need more space than the display area next to the cafeteria. Additional space is needed to have some office space for people doing shifts at LHC@FNAL, since it is unlikely that they will have office space in Wilson Hall. We also need space for small video conference rooms, and one larger conference room.

Alvin: The existing large conference room may be more of an obstacle than we think.

Patty: Yes, we need to figure out how to make it more useable.

Pier suggested that Erik present our requirements and plans for LHC@FNAL to the Fermilab SAG.

We also made the point that although we have people from all four divisions working on LHC@FNAL, none of the divisions view it as part of their mission.

Talking to FESS, they indicate that they need 8-12 months of design time, so we will begin to have weekly meetings to discuss implementation and design. This is also needed to develop cost estimates for the WBS.

Site Visit Status – Suzanne Gysin

(<http://docdb.fnal.gov/CMS-public/DocDB/ShowDocument?docid=441>)

Site Visit of the National Ignition Facility – Erik Gottschalk

(<http://docdb.fnal.gov/CMS-public/DocDB/ShowDocument?docid=532>)